

Waste Site Reclassification Form

0544718

0056730

Date Submitted: 1/3/02	Operable Unit(s): 100FR-1	Control Number: 2001-095
Originator: Mark Buckmaster	Waste Site ID: 100-F-40 Animal Farm Surface Impoundment	RECEIVED MAR 22 2002 EDMC
Phone: 509-521-2089	Type of Reclassification Action: Rejected <input checked="" type="checkbox"/> Closed Out <input type="checkbox"/> No Action <input type="checkbox"/>	

This form documents agreement among the parties listed below authorizing classification of the subject unit as rejected, closed out, or no action and authorizing backfill of the site, if appropriate. Final removal from the NPL of no action or closed-out sites will occur at a future date.




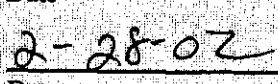
Description of current waste site condition:

(Summarize status of investigation/remediation of the waste sites.)

A recently discovered historical photo of the 100 F Area Experimental Animal Farm (EAF) indicates a liquid waste disposal pond. The waste site was designated as "100-F-40 Animal Farm Surface Impoundment". The current site is located in a open cobble field with no vegetation. No signs of the waste site are present on the ground surface. In April 2001, two test pits were excavated to locate and characterize this site. Details of the characterization activities are contained within the attached white paper.

Basis for reclassification:

Based on interviews from EAF workers and characterization data, the site received uncontaminated liquid waste from EAF operations. As a result, the 100-F-40 Animal Farm Surface Impoundment can be rejected within the WIDS.

Chris Smith DOE Project Manager	 Signature	 Date
N/A Ecology Project Manager	 Signature	 Date
Dennis Faulk EPA Project Manager	 Signature	 Date

100-F-40 Pothole/Sampling



Results

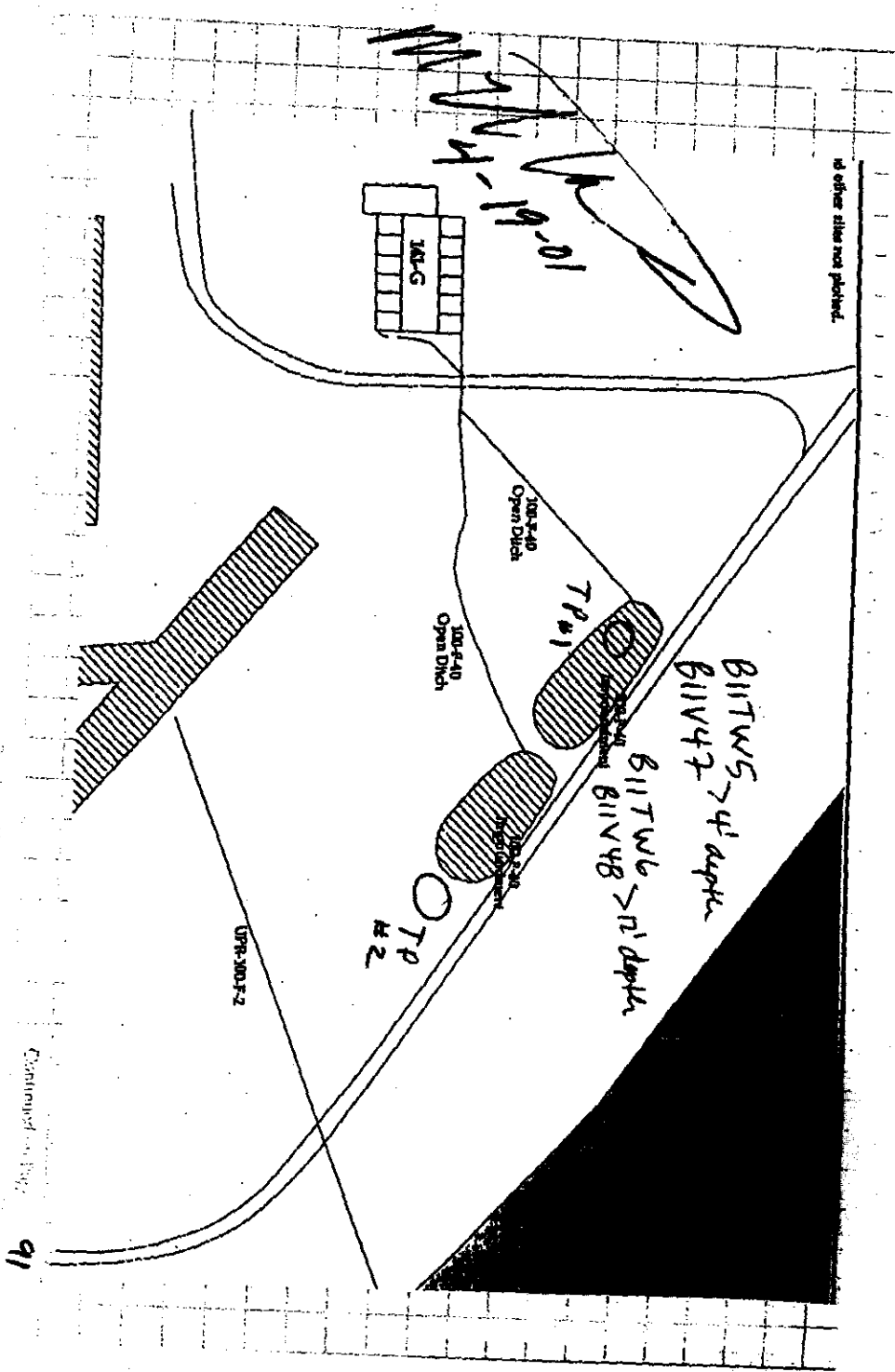
Analytical data are attached in Appendix B. Sample number B11TW5 in test pit number 1 was collected in the reddish stained soil (see photo attachment A). Analytical data results were less than detectable, however the detection limit for Cr^{+6} was 6.3 mg/kg. The laboratory indicated the high detection limit was based on interfaces from color leaching from the soil. The staining is a result of the animal waste (manure) in the soil. All other data indicates Cr^{+6} below regulatory limits. In addition, a Cr^{+6} leachate study was conducted at 100 F on concentrations up to 7.2 mg/kg. Results indicate no impact to groundwater. RESRAD modeling also indicates no impact to groundwater at levels higher than the nondetection limit. Results of the leachate study can be found in CVP-2001-00002, *Cleanup Verification Package for the 100-F-19:1 and 100-F-19:3 Reactor Cooling Water Effluent Pipelines, 100-F-34 Biology Facility French Drain, and 116-F-12 French Drain*. Data results from the remaining samples are below cleanup levels.

Conclusion

The 100-F-40 Animal Farm Surface Impoundment received liquid waste as a result of EAF operations. Based on interviews from EAF workers and sample data, it can be concluded that the ponds received only uncontaminated waste as a result of cleaning animal pens.



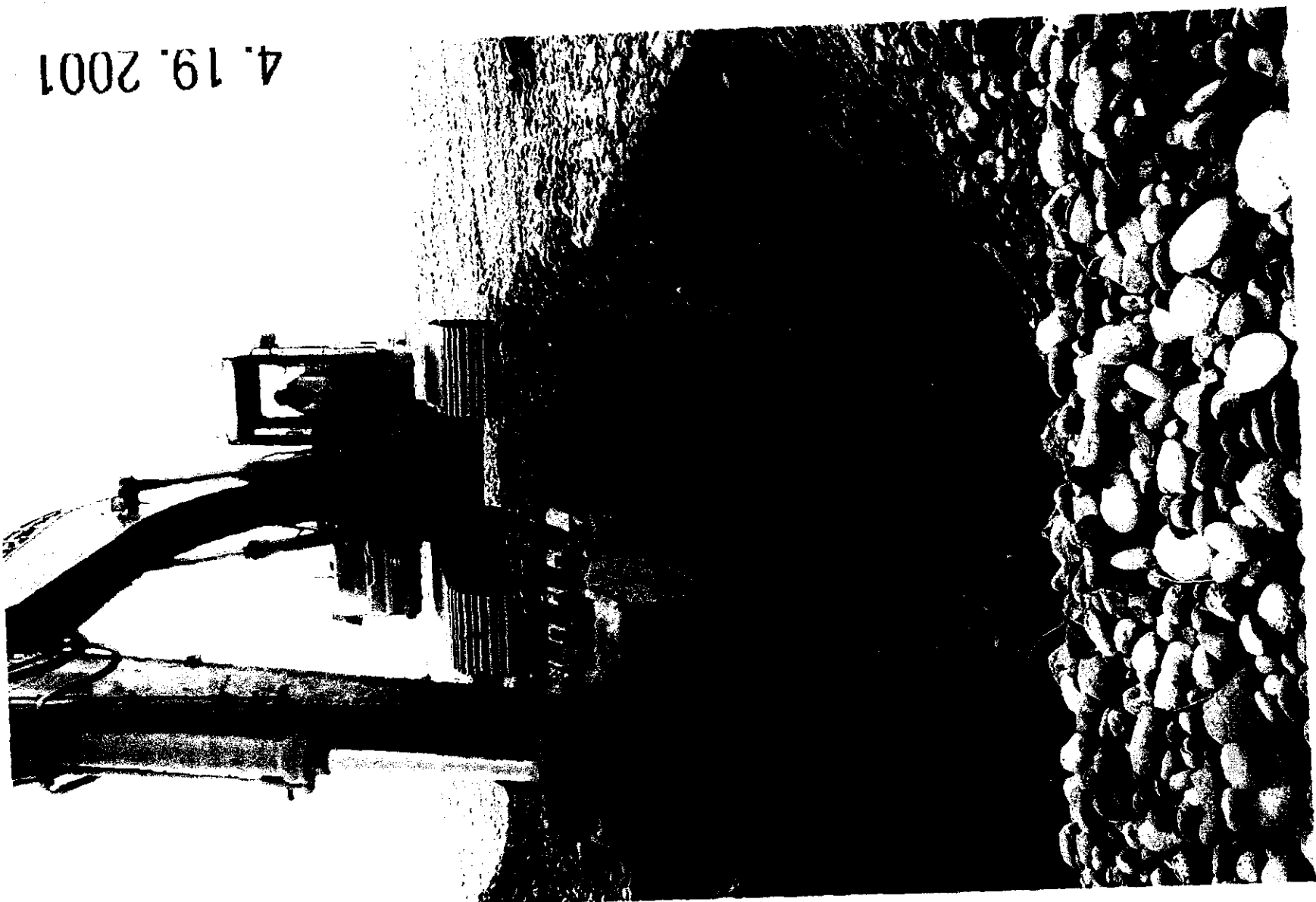
FIGURE 2.
100-F-40 TEST PIT
LOCATIONS



Attachment A

100-F-40 Pothole/Sampling





4. 19. 2001



Attachment B

TMA / RICHMOND
SAMPLE DELIVERY GROUP H1327

R104153-03

B11V47

DATA SHEET

SDG <u>7678</u>	Client/Case no <u>Hanford</u>	SDG <u>H1327</u>
Contact <u>Melissa C. Mannion</u>	Contract No. <u>630</u>	
Lab sample id <u>R104153-03</u>	Client sample id <u>B11V47</u>	
Dept sample id <u>7678-003</u>	Location/Matrix <u>100-F-40</u>	<u>SOLID</u>
Received <u>04/26/01</u>	Collected <u>04/19/01 13:20</u>	
% solids <u>89.4</u>	Custody/SAF No <u>B00-029-094</u>	<u>B00-029</u>

ANALYTE	CAS NO	RESULT pCi/g	2σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Total Strontium	SR-RAD	0.071	0.13	0.18	1.0	U	SR

100 F Area - Quick Turn

Lab id <u>TMANC</u>
Protocol <u>Hanford</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/11/01</u>

TMA / RICHMOND
SAMPLE DELIVERY GROUP H1327

R104153-04

B11V48

DATA SHEET

SDG <u>7678</u>	Client/Case no <u>Hanford</u>	SDG <u>H1327</u>
Contact <u>Melissa C. Mannion</u>	Contract No. <u>630</u>	
Lab sample id <u>R104153-04</u>	Client sample id <u>B11V48</u>	
Dept sample id <u>7678-004</u>	Location/Matrix <u>100-F-40</u>	<u>SOLID</u>
Received <u>04/26/01</u>	Collected <u>04/19/01 14:05</u>	
% solids <u>70.1</u>	Custody/SAF No <u>B00-029-094</u>	<u>B00-029</u>

ANALYTE	CAS NO	RESULT pCi/g	2σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Total Strontium	SR-RAD	0.454	0.15	0.18	1.0	J	SR

100 F Area - Quick Turn

Lab id <u>TMANC</u>
Protocol <u>Hanford</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/11/01</u>

Lionville Laboratory, Inc.

TOXICOLOGY DATA SUMMARY REPORT 05/11/01

LVL JOB #: 01041613

CLIENT: THUNDERBOLT 500-025 #1327
WORK ORDER: 11343-506-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT	UNIT	REPORTING	DICTION
001	SLTMS	Chromium VI + Solids	51.4	%	0.01	1.0
002	SLTMS	Chromium VI + Solids	91.7	%	0.01	1.0
		Chromium VI	0.44	mg/kg	0.44	1.0
		Chromium VI	5.3	mg/kg	5.3	10.0
		REPORTING LIMIT				
		DICTION				

TMA / RICHMOND
SAMPLE DELIVERY GROUP H1327

R104153-01

B11TW5

DATA SHEET

SDG <u>7678</u>	Client/Case no <u>Hanford</u>	SDG <u>H1327</u>
Contact <u>Melissa C. Mannion</u>	Contract No. <u>630</u>	
Lab sample id <u>R104153-01</u>	Client sample id <u>B11TW5</u>	
Dept sample id <u>7678-001</u>	Location/Matrix <u>100-F-40</u>	<u>SOLID</u>
Received <u>04/26/01</u>	Collected <u>04/19/01 13:40</u>	
% solids <u>87.2</u>	Custody/SAF No <u>B00-029-090</u>	<u>B00-029</u>

ANALYTE	CAS NO	RESULT pCi/g	2σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Carbon 14	14762-75-5	0.136	2.6	4.3	50	U	C
Total Strontium	SR-RAD	0.105	0.13	0.17	1.0	U	SR
Potassium 40	13966-00-2	14.7	3.4	1.8			GAM
Cobalt 60	10198-40-0	U		0.22	0.050	U	GAM
Cesium 137	10045-97-3	0.245	0.20	0.23	0.10		GAM
Radium 226	13982-63-3	0.445	0.25	0.31	0.10		GAM
Radium 228	15262-20-1	U		1.2	0.20	U	GAM
Europium 152	14683-23-9	U		0.44	0.10	U	GAM
Europium 154	15585-10-1	U		0.70	0.10	U	GAM
Europium 155	14391-16-3	U		0.41	0.10	U	GAM
Thorium 228	14274-82-9	0.691	0.25	0.28			GAM
Thorium 232	TH-232	U		1.2		U	GAM
Uranium 235	15117-96-1	U		0.59		U	GAM
Uranium 238	U-238	U		21		U	GAM
Americium 241	14596-10-2	U		0.42		U	GAM

100 F Area - Quick Turn

Lab id <u>TMANC</u>
Protocol <u>Hanford</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/11/01</u>

TMA / RICHMOND
SAMPLE DELIVERY GROUP H1327

R104153-02

B11TW6

DATA SHEET

SDG <u>7678</u>	Client/Case no <u>Hanford</u>	SDG <u>H1327</u>
Contact <u>Melissa C. Mannion</u>	Contract No. <u>630</u>	
Lab sample id <u>R104153-02</u>	Client sample id <u>B11TW6</u>	
Dept sample id <u>7678-002</u>	Location/Matrix <u>100-F-40</u>	<u>SOLID</u>
Received <u>04/26/01</u>	Collected <u>04/19/01 13:50</u>	
* solids <u>88.0</u>	Custody/SAF No <u>B00-029-090</u>	<u>B00-029</u>

ANALYTE	CAS NO	RESULT pCi/g	2σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Carbon 14	14762-75-5	-0.947	2.3	3.9	50	U	C
Total Strontium	SR-RAD	0.019	0.12	0.17	1.0	U	SR
Potassium 40	13966-00-2	12.1	3.5	1.5			GAM
Cobalt 60	10198-40-0	U		<u>0.11</u>	0.050	U	GAM
Cesium 137	10045-97-3	U		<u>0.11</u>	0.10	U	GAM
Radium 226	13982-63-3	0.445	0.22	<u>0.23</u>	0.10		GAM
Radium 228	15262-20-1	0.456	0.43	<u>0.48</u>	0.20	U	GAM
Europium 152	14683-23-9	U		<u>0.30</u>	0.10	U	GAM
Europium 154	15585-10-1	U		<u>0.38</u>	0.10	U	GAM
Europium 155	14391-16-3	U		<u>0.23</u>	0.10	U	GAM
Thorium 228	14274-82-9	0.692	0.14	0.16			GAM
Thorium 232	TH-232	0.456	0.43	0.48		U	GAM
Uranium 235	15117-96-1	U		0.48		U	GAM
Uranium 238	U-238	U		13		U	GAM
Americium 241	14596-10-2	U		0.12		U	GAM

100 F Area - Quick Turn

Lab id <u>TMANC</u>
Protocol <u>Hanford</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/11/01</u>